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October 8, 2004, 04:42:22; Search time 8348 Seconds (without alignments) 11183.624 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ID Description	AC006001 Home sap AC146119 Pan trog AC006001 Home sap BD183414 Novel ge BC042482 Home sap AX714361 Sequence AX056631 Home sap AX056631 Home sap BD275557 MOLECULE	AB056802 Macac AX57590 Seque G51111 SHGC- AX575786 Seque AX575786 Seque AX117185 Mus AX127790 Mus BXX127790 Homo BXX127790 Homo BXX127790 Homo BXX127790 Homo BXX167191 Seque AX16719 Seque AX16719 Seque AX16719 Mus AX16719 Mus AX16741 Seque AX16719 Mus AX16741 Seque	AC134778 AC134778 AC134778 AC134778 AC13941 AC139421 AC139431 AC139431 AC139431 AC09007 AC09007 AC09007 AC0910132 AC0910132 AC0910132 AC0610132 AC06101323 AC0610133 AC0610133 AC0610133 AC0610133 AC000134 AC0100134 AC000134 AC000	ALIGNMENTS  135044 bp DNA linear PRI 02-0CT-2003  ne RP4-756H11 from 7, complete sequence.  96  Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
Length DB			178538 203192 826536 826536 204940 2004611 134362 1113436 111340 1113436 1113436 200440 900440 100440 100040 100	PAC clo GI:57084 (human) etazoa; theria; to 13504
& Query e Match	53. 47. 27. 27. 27. 27.	22 4 4 8 8 6 6 6 6 7 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	: 0. 0. 4 a a a a 4 4 4 4 0 0 0 0 0 0 0 0 0 0 0	AC006001 Homo sapiens AC006001 AC006001.2 HTG. Homo sapiens Homo sapiens BUKARYOLA; Mammalia; Eu 1 (Dases 1
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AUTHORS TITLE JOURNAL

TITLE JOURNAL REFERENCE

MEDLINE PUBMED REFERENCE AUTHORS REFERENCE

TITLE JOURNAL REFERENCE AUTHORS TITLE

JOURNAL

TITLE JOURNAL

AUTHORS

REFERENCE AUTHORS TITLE JOURNAL

COMMENT

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NEIGHBORING SEQUENCE INFORMATION:
Actual start of this clone is at base position 1 of RP4-756H11 actual end is at base position 135044 of RP4-756H11.
Location/Qualifiers
(http://www.resgen.com); or from Pieter de Jong
VECTOR: pCYPAC2
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3794. .3823

/rpt_family="L1"

3824. .4073
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59. 349
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5162, .5624
/rpt_family="L1"
5625, 5910
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835. .1030
/rpt_family="L2"
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f. .2781
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5920. .6087
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785. .2027
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517. .3546
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229. .3516
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156. .4643
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                                                                                                                                FEATURES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (02-0CT-2003) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA On Aug 8, 1999 this sequence version replaced gi:3907522.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (30-SEP-2000) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA 6 (bases 1 to 135044)
                                                                                                                                                                                                                                                                                                        Submitted (07-AUG-1999) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USA
                                                                                                                                                                                          Sequencing Center, Washington
4444 Forest Park Parkway, St. Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality date (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This clone was derived from human PAC library RPCI-4, prepared by Pieter de Jong and coworkers at http://www.chori.org using the method deserribed by loainou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor. The clone may be obtained either from Genome Systems, Inc. (http://www.genomesystems.com) or Research Genetics, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Department of Genetics, Washington
Park Avenue, St. Louis, Missouri 63108,
                                               (bases 1 to 135044)
Lamar, B., Le.T. and Wohldmann, P.
The sequence of Homo sapiens PAC clone RP4-756H11
Unpublished (2001)
(bases 1 to 135044)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (26-APR-2003)
University, 4444 Forest
7 (bases 1 to 135044)
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Waterston, R.H.
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                                                                                                                                                    Waterston, R.H.
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Catarrhini; Hominidae; Pan.
                                                                                                                                                                                                                      31638 CAGTIGCAATATAATAACAGTITCAAGATCTAGAGGTACCTITIGAAAGAACCCCTICA
                                             31818 TCCAGAATTCCAATAGCTGAAAACCCTGTTATAGCTTTTCTCCTATTCTGCCTTACCCAA
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                                                                                  GACACACTTGAACCCCTCAGTAAGGCTATAGAGAGGGCCATGAGCAGGGGCAGCCTCTCC
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Mammalia, Butheria, Primates,
1 (bases 1 to 194464)
Wilson, R.K.
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HTG; HTGS PHASE1.
Pan troglodytes (chimpanzee)
Pan troglodytes
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4062. .14287
                                 7-69. -8930

/ rpt family="Alu"

872. family="Alu"

9079. 9126

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11152. 11226

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0299. .8437
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8769. .8930
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14669. 14965
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15509. 15814
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15827. 16007
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rpt family="MIR"
3722. .13853
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            contig of 8383 bp in length
gap of unknown length
contig of 8292 bp in length
contig of 7991 bp in length
contig of 7991 bp in length
gap of unknown length
contig of 7802 bp in length
gap of unknown length
contig of 1832 bp in length
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/note="assembly_name:Contig36"
82415. .90706
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/note="assembly_name:Contig23"
16549. .18757
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                                    Wilson, R. K.
Direct Submission
Submitted (01-AUG-2003) Genetics, Genome Sequencing Center, 4444
Forest Park Parkway, St. Louis, MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NOTE: This is a 'working draft' sequence. It currently consists of 31 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                          Center: Washington University Genome Sequencing Center
Center code: WUGSC
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1429: gap of unknown length
3053: contig of 1624 bp in length
3153: gap of unknown length
5075: contig of 1822 bp in length
5075: gap of unknown length
6209: contig of 1134 bp in length
7326: contig of 1134 bp in length
7326: contig of 107 bp in length
10326: contig of 1900 bp in length
10412: gap of unknown length
10412: contig of 1986 bp in length
12512: gap of unknown length
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Sequencing vector: plasmid; 100%
Chemistry: Dye-primer ET; 0% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 17723 bases at least Q40
Consensus quality: 180602 bases at least Q20
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gap of unknown 1
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gap of unknown 1
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gap of unknown 1
contig of 8941 b
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1706   GCAAATATTGAGAGATTAACAGAAATTCCAGCTCTTATGCCTAACTGAGAAGAGCCACTG   1765   143036   GCAAATATTGAGAGATTAACAAATTCCAGCTCTTATGCCTAACTGAGAAGAGCCACTG   143093   1766   CAAGTTGCAGTTAGGTACCTGTGCAGAGGCCAGAGCTTCCCAAA   1825   143094   GAAGTTGCAGTTACCTGAGGAGGCCAGAGCTTCCCAAA   1825   1826   GTGAACACCAGGGGCCAGCAGAGGCCAGAGCTTCCCAAAATCCCAAGAGCTTCCCAAA   143153   1826   GTGACACCAGGGGACTATCCTGATCTCCCACCAAGAGGAAGATTGAGCTCAAAA   143153   143154   GTGACACCAGGGGACTATTCCTGATGTCCCACCAAGAGAGAAGAATGAGCTGAGGC   1885   143154   GTGACACCAGGGGACTATTCCTGATTCCCACCAAGAGAGAAGAATAAAATAAAATAAAA   1945   143214   GCTGTTGCTCGCCAAATGCATCAAGTTCACACTCACCCATTCAAAATAAAA   143273   143214   GCTGTTGCTCTGCCAAATGCATTCAAGATTAAAATAAAA	Qy         1946 TGGCATTCTTGGAACCTTGTATCTGACATGTAAGACCAGCCTACACATTGGGGTGGC 2005           Db         143274 TGGCATTCTTGGAACCTTGTATCTGACATGTAAGACCAGCCTACACATTGGGGTGGTGC 143333           Qy         2006 AGGGGTCACACTTGTAATCCTAGCACTTTGGAAGGCTGAGGTGGGTG	ACO06001 ACO06001 ACO06001 ACO06001 ACO06001 ACO06001 BERNATION ACO06001 ACO06001.2 GI:5708496 ACCESSION		AUTHORS  AUTHORS  Direct Submission  JOURNAL  Submitted (07-AUG-1999) Genome Sequencing Center, Washington  University School of Medicine, 4444 Forest Park Parkway, St. Louis,  MO 663108, USA  MO 663108, USA  AUTHORS  AUTHORS  JOURNAL  JOURNAL  Submission  JOURNAL  University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA  REFERENCE  6 (bases 1 to 135044)
misc_feature	Ouery Match  Ouery Match  Ouery Match  Ouery Match  S3.9%; Score 1160.6; DB 2; Length 194464;  Best Local Similarity 98.7%; Pred. No. 4.8e-263;  Matches 1203; Conservative 0; Mismatches 9; Indels 7; Gaps 3;  Oy 926 AAAGGCGGCTGTATTTGGAACTCCCATTGGTCCAGAGAACAATGAGAAAT 985	1106   TTCTGACCCTTTTATGGCAACACCCCGGGACAATTGTAGATTGAGATCC   1165	TCCAGAATTCCAATAGCTGAAAACCTGTTATAGCTTTTCTCCTATTCTGCCTTACCCAA 1405  [	142915 1645 142975 1705 143035

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                                                                                                        // Number. -
Wilson,R.
Direct Submission
Submitted (02-00T-2003) Department of Genetics, Washington
Submitted (02-00T-2003) Department of Genetics, Missouri 63108, USA
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Aug 8, 1999 this sequence version replaced gi:3907522.
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Center code: WUGSC
Center code: WUGSC
                                                               USA
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The library is from one male donor.
(http://www.genomesystems.com) or Research Genetics, Inc. (http://www.genomesystems.com) or Research Genetics, Inc. (http://www.resgen.com); or from Pieter de Jong.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats, all regions were covered by sequence from more than one subclone; and the assembly was confirmed by
Waterston,R.
Direct Submission

Direct Submission
Submitted (26-APR-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108,
7 (bases 1 to 135044)
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Actual start of this clone is at base position 1 of RP4-756H11
actual end is at base position 135044 of RP4-756H11.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                            organism="Homo sapiens"
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194 _ occ
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

E. 1 (bases 1 to 4807)

S. Ohara,O., Nagase,T. and Nakajima,D.
Novel genes and proteins encoded by the genes

E. KAZUSA DNA RESEARCH INSTITUTE
OS Homo sapiens (human)

PN JP 2002345492-A.127 03-DEC-2002;

PP 26-REB-2002

PP 26-REB-2002

PP 26-REB-2002

PP C3-REB-2002

PP C4-REB-2002

PP C4-REB-2002

PP CA-REB-2002

PP 
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JP 200245492-A/127
03-DEC-2002
26-FEB-2002 JP 2002049009
0SAWU CHARA, TAKAHIRO NAGASE, DAISUKE NAKAJIMA
C12N15/09, C07K14/47//A61K31/711, A61K38/00, A61F25/00, A61P25/14,
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Novel genes and proteins encoded by the genes
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Novel genes and proteins encoded by the genes.
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JP 2002345492-A/127.
Homo sapiens (human)
Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCTCACAGTGTCCCCAGGATTTCTGGGGTTTATAAGCAGTACTGGCCATTTGTGACCCT
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                                                                                                                                                                                                                                                                                                                                                                                                     Score 1031.4; DB 9;
Pred. No. 1.5e-232;
0; Mismatches 66;
                                                                /rpt_family="Alu"
12465. 12583
//rpt_family="MIR"
13722. 13853
/rpt_family="MER1_type"
14062. 14287
                                                                                                                                                                                           /rpt_family="L2"
14461. 14592
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14669. 14965
/rpt_family="Alu"
15509. 15814
/rpt_family="Alu"
15827. 16007
                    /rpt_family="Alu"
|2015. .12333
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Best Local Similarity 93.6%;
Matches 1143; Conservative
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Thote="K tetra; Region: K+ channel tetramerisation domain."
The N-terminal, cytoplasmic tetramerisation domain (T1) of voltage-gated K channels encodes molecular determinants for subfamily-specific assembly of alpha-subunits into the trameriac channels. It is distantly related to the BTB/POZ domain pfam00651"

Ab_xref="CDD:pfam02214"
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HEPOTVLDFRESGDLEPRERYRAVKTRAGYYARGAPLEGLEMOQELKGEKVROAFIGLM
PYXKOHLERIVEIARILANGORKARRAKLKVCYFKEENPITPYSCPLLANSLRFERSESD
GOLFEHHCEVDVSFGPWEAVADVYDLLHCLVTDLSAQGITVDHQCIGVCDKHLVNHYY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                    Submitted (02-JAN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clone distribution: MGC clone distribution information can be for through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 52 Row: 1 Column: 6 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, GenomeScan gene prediction.
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E., Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A. Generation and initial analysis of more than 15,000 full-length human and mouse cDMs sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                 WIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Trissue Procurement: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
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/mol type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:34731 IMAGE:5165722"
/tissue type="Brain, adult medulla"
/clone lib="NIH MGC_119"
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/protein_id="AAH42482.1"
/db_xref="G1:27503738"
/db_xref="GocusID:154881"
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/db_xref="LocusID:154881"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
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E. (Dases 1 to 1211)
Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.E., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schefer C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.U.; Wang, J., Haieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheeter, T.B., Townstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Rah, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., Morley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Mazny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Ketteman, M., Madan, A., Rodrígues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodríguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
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                                                                                                 TGGTAGTCACGGGGGGGGGAGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGCTCTG
                                                                                                                                                                                                               350 ACGCCGAAGACGACTTTCTGGAGCCGGCCACGCCGACGCCACGCGAGGCGGGCACGCGC
                                                                                                                                                                                                                                                                     Acecceaadacdacrrrcregaeccedeccaceceaceccacecaeceaegeegeeaece
                                                                                                                                                                                                                                                                                                                                410 TGCCCCTGCTGCCACAGGAGTTTCCTGAGGTTGTTCCCCTTAACATCGGAGGGGCTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                              TCACTACACGCCTGTCCACACTGCGGTGCTACGAAGACACCATGTTGGCAGCCATGTTCA
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Yamamoto,J.I., Isono,Y., Hio,Y., Otsuka,K., Nagai,K., Irie,R.,
Tamechika,I., Seki,N., Yoshikawa,T., Otsuka,M., Nagahari,K. and
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                                                 290 TGGTAGTCACGGGGGGGGGGCGAGCCGTCGTCAGGACGGTGCCATGTCCAGCTCTG
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Hellx Research Institute (JP); Research Association for
Biotechnology (JP)
Location/Qualifiers
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    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

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Conservative
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Oshima, A., Takahashi-Fujii, A., Tanase, T., Imose, N., Takeuchi, K., Arita, M., Musashino, K., Yuuki, H., Hara, H., Sugiyama, T., Trie, R., Otsuki, T., Sato, H., Ota, T., Wakamatsu, A., Ishii, S., Yamamoto, J., Yamai-Hio, Y., Saito, K., Nishikawa, T., Kimura, K., Kanda, K., Wagatsuma, M., Murakawa, Y., Sekine, M., Kikuchi, H., Kanda, K., Wagatsuma, M., Murakawa, K., Kanehori, K., Sugiyama, A., Rawkami, B., Suzuki, Y., Sugano, S., Nagahari, K., Masuho, Y., Nagai, K. NEDO human con Sequencing project
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AKO56631.1 GI:16552086
Oligo capping; fis (full insert sequence).
Homo sapiens (human)
Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CACACTITGGAGAIGTGCTGAATTTCCTGCGCTCAGGGGACCTCCCACCCAGGGAGCGTG
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    Length 2576;
27.3%; Score 587; DB 6; L
larity 96.0%; Pred. No. 8.6e-128;
Conservative 0; Mismatches 25;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1124)

Lu, D.A.M., Azimzai,Y., Baughn, M.R., Tang, T.Y., Lal,P. and Yue,H. Mollectules OF THE INMUNE SYSTEM
PATENT: JP 2002540791-A 2 03-DEC-2002;
INCYTE PHARMACEUTICALS INC,Henry YUE, Preeti LAL, Tom Y TANG, Mariah R BAUGHN, Yalda AZIMZAI, Dyung Aina M LU
OS Homo sapiens
PN JP 2002540791-A/2
                                                                                                                                                                                                                                                                                                                                                                      PAT 17-JUL-2003
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tang. PI
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04-APR-2000 JP 2000609571
05-MAY-1999 US 60/132647,05-APR-1999
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99.3%; Pred. No. 1.1e-122;
iive 0; Mismatches 3;
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Key Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                           DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Homo sapiens (human)
Homo sapiens
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LPQEFPERVPLINIGGAHFTTRLSTLRCYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGT
HFGDYLNFLRSGSDLPPRERVRAVYKBAQYYALGPLLEQLENMQPLKGBRYRQAFLGLM
YYKDHLERIVGIARLRAVQRKARFAKLKVCVFKEEMPITPYBCPLLNSLRFERSESD
GQLFEFHFCEVDVSFGPWEAVADVYDLHCLVTDLSAQGLTVDHQCIGVCDKHLVNHYY
CKRPIYEFKITWM"
                                                                                            Genomics Laboratory; Janua, Insura, Academics Laboratory; Jasa-3 Yana, Kisarazu, Chiba 292-0812, Japan (B-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986) NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; CDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and HRI.
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                                   Isogai,T., Otsuki,T. and Sugiyama,T.
Direct Submission
Submitted (24-OCT-2001) Takao Isogai, Helix Research Institute,
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/note="cloning vector: pME18SFL3"
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Best Local Similarity 96.0%; Pred. No. 8.6e-128;
Matches 602; Conservative 0; Mismatches 25;
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                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="COBF1000118"
/tissue_type="brain"
/clone_lib="QCBF1"
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db_xref="GI:16552087"
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/protein id="BAB39126.1"
/db_xref="G1:13165905"
/db_xref="G1:1316
         /dev stage="adult"
/note="Host: TOP10; Vector: pME18S-FL3 (Acc.No. AB009864);
R. Sitel: Draili (CACTGTGTG); R. Site2: Draili
(CACCATGTG)
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Novel human ion channel-related proteins and polynucleotides
encoding the same
Patent: WO 02068626-A 8 06-SEP-2002;
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                                                                                                                                                                                                                                                                                                                                                                   Length 3864;
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Mammalia, Eutheria, Primates, Catarrhini, Cercopithecidae,
TGGGACTCATGCCCTATTACAAAGACCACTTGGAGCGGATTGTGGAGATCG-CCGGCTGC
                                                                                           CACCCAGGGAGCGTGTTCGAGCTGTGTACAAAGAGGCCCCAGTACTATGCCATCGGGCCCC
                                                                                                                                                                               TCCTGGAGCAGCAGAACATGCAGCCACTGAAGGCGAGAGGTGCGCCAAGCGTTTC
                                                                                                                                                                                                                                                                     TGGGACTCATGCCCTATTACAAAGACCACTTGGAGCGGATTGTGGAGATCGCCCGGCTGC
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fise (full insert sequence); oligo capping.
Macaca fascicularis (crab-eating macaque)
Macaca fascicularis
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|Mol_trype="MRNA"
|Ab xref="taxon:9541"
|clone="QflA-12743"
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1097 GCATGGCAATTCTGACCCTTTTATGGCAACAACACCCCTGGGACAACCCCAGATTTGTAGA 1156
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BAC ends sequenced at TIGR from the RPCI11 BAC library. Designed and developed at the Stanford Human Genome Center. Location/Qualifiers
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17.4%; Score 374; DB 11;
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Matches 374; Conservative 0; Mismatches 0;
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/map="7"
/clone_lib="Human"
20. 344
20. 42
complement (322. .344)
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Sequence 4 from Patent WO02068626.
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Total Vol:
Primer B: GAGTATTCCAACACTTCATGGGC
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Initial incubation: 95 de
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SHGC-80071 Human Homo sapiens STS genomic, sequence tagged site.
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1 (bases 1 to 374)
10 livier, M. and Cox, D.R.
Unpublished, Olivier, M., Cox, D.R. (2000)
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Stanford Human Genome Center
Stanford University School of Medicine
4005 Miranda Ave. 2nd Fl., Palo Alto, CA 94025, USA
Tel: (650) 320-5800
Fax: (650) 320-5800
Email: olivieroshyc.stanford.edu
Primer A: TCGGGTAAAACCATGTCCTAAAA
                                                                                                                                                                                                 Query Match 18.0%; Score 387.8; DB 6; Length 6 Best Local Similarity 88.2%; Pred. No. 8.2e-81; Matches 456; Conservative 1; Mismatches 3; Indels
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                                                  1. .680
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
       Lexicon Genetics Incorporated (US)
Location/Qualifiers
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Center project name: M_BA0037M07
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/mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="8"
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6. .531
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744. .1012
/rpt_family="MaLR"
1386. .2293
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4486. .4563
/rpt_family="ERV1"
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2343. .2550
/rpc family="B2"
3654. .3800
/rpc family="B4"
3835. .3937
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Unpublished (2001)
3 (Dases I to 188791)
MCPherson, J.D. and Waterston, R.H.
Direct Submission
Submitted (08-APR-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 TCTGACGCCGAAGACGACTTTCTGGAGCCGGCCACGCCGACGCCACGCCAGGCGGGGGGGCAC
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
I (Dases 1 to 188791)
Haglund, K. and Schetzkamer, K.
The sequence of Mus musculus BAC clone RP23-37M7
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 ATGGTGGTAGTCACGGGGCGGGAGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGG
                                                                                        Eukaryoča; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCGCTGCCCCTGCCACAGGAGTTTCCTGAGGTTGTTCCCCTTAACATCGGAGGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CACTTCACTACACGCCTGTCCACACTGCGGTGCTACGAAGACACCCTTGGTGGTGCCATG
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                                                                                                                                                                                                                                                                                                                                                                                                                                        286 ATGGTGGTAGTCACGGGGGGGGGGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              346 TCTGACGCCGAAGACGACTTTCTGGAGCCGGCCACGCCGACGCCACGCAGGCGGGGCAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACTICACTACACGCCTGTCCACACTGCGGTGCTACGAAGACACCATGTTGGCAGCCATG
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                                                                                                                                           Friddle, C.J., Gerhardt, B., Hilbun, E. and Turner, C.A. Novel human ion channel-related proteins and polynucleotides
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Best Local Similarity 99.1%; Pred. No. 1.1e-63;
Matches 317; Conservative 0; Mismatches 3
                                                                                                                                                                            encoding the same
Patent: WO 02068626-A 4 06-SEP-2002;
Lexicon Genetics Incorporated (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (house mouse)
                  4X575786.1 GI:27552274
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Wilson, R.
                                                      Homo sapiens (human)
                                                                           Homo sapiens
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Direct Submission
Submitted (05-NOV-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Jun 21, 2002 this sequence version replaced gi:20069729.
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4 (bases 1 to 188791)
McPherson,J.D. and Waterston,R.H.
Direct Submission
Submitted (21-JUN-2002) Genome Sequencing Center, 4444 Forest Park
Exkway, St. Louis, MO 63108, USA
5 (bases 1 to 188791)
Wilson,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by
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This sequence is the entire insert of the clone. This clone is
overlapped by AC122830.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center: Washington University Genome Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
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18

musculus BAC clone RP23-224I23 from 8, complete sequence.

VERSION KEYWORDS SOURCE ORGANISM

REFERENCE AUTHORS

TITLE

JOURNAL REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS

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REFERENCE AUTHORS

JOURNAL

COMMENT

DEFINITION

ACCESSION

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note="Likely pseudogene (HMM Sc=18.64 / Sec struct
                 This sequence is the entire insert of the clone. This clone overlapped by AC117185 and AC116323.

Location/Qualifiers
                                                                                 1. .257003

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NEIGHBORING SEQUENCE INFORMATION:
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6806. .7044
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                                                             FEATURES
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Center: Washington University Genome Sequencing Center Center code: WUGSC
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                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (Dases 1 to 257003) Scott, K., Harkins, R., Cotton, M., Spalding, L., Creason, K., Mangiapanello, L. and Delaney, K. The sequence of Mus musculus BAC clone RP23-224123 Unpublished (2001) 2 (Dases 1 to 257003) Wilson, R.
                                                                                                                                                                                                                                                                                                                                                                                    Submitted (25-MAY-2002) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA (Dases 1 to 257003)
MCPherson, J. D. and Waterston, R.H.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (01-SEP-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
5 (bases 1 to 257003)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unpublished (2001)
3 (Dases I to 257003)
MCPherson, J. D. and Waterston, R.H.
Direct Submission
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McPherson, J.D. and Waterston, R.H.
Direct Submission
                                                                                                                                                                                                                                                                                       Sequencing of Mus musculus
                                                Mus musculus (house mouse)
             AC122830.4 GI:29469632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MAPPING INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Direct Submission
                                                                          Mus musculus
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repeat\_region

The RPCI-23 BAC Library has been constructed by Kazutoyo Osegawa and Minako Tateno in the laboratory of Pieter de Jong (http://www.chori.org) from female C57BL/6J mouse kidney and/or brain genomic DNA. The clone and detailed information can be obtained from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at http://www.chori.org

SOURCE INFORMATION:

rpt\_family="Alu" 288<u>2</u>. .13609

repeat\_region repeat\_region repeat\_region

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Mus musculus (Modera) Chordata; Vertebrata; Buteleostomi; Mus musculus and Manaila; Rodentia; Sciurognathi; Muridae; Murinae; Musculus Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Musculus 1 (bases 1 to 1103)

1 (bases 1 to 1103)

2 Straubberg, E., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shemmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.P., Bhat, N.K., Diatchenko, L., Marusina, K.P., Porada, M.B., Bonaldo, M.F., Casavant, T.L., Schetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.J., Malek, J.A., Gunaratne, P.H., Richards, S.W., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzly, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Sanchez, A., Whiting, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Rodrigues, S., Bukesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Schein, J.E., Volnies, S.J. and Marra, M.A., Schein, J.E., Scheit, J.E., Schmutz, J., Myers, R.M., Mann, S. A., Scheil, J.E., J. and Marra, M.A., Schein, J. A., Schein, J.E., J. and Marra, M.A., J. and J. analysis of more than 15,000 full-length
                                                                                                                                              55449
                                                                                                                                                                                                                  Mus musculus potassium channel tetramerisation domain containing 7, mRNA (cDNA clone IMAGE:5254261), partial cds.
BCO51544.1 GI:30186133
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                                                                                                    788
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Direct Submission
Submitted (28-APR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUM-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help deek
Contact: MGC help deek
Contact: MGC help deek
Contact: MGC help deek
Issue Procurement: dilbert Smith, Ph.D.
CDNA Library Preparation: M. Bento Soares, University of Iowa
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbiology.org
contact: amadam@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha
Anup Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                     669 GGCCCAGTACTATGCCATCGGGCCCCTCGAGGAGCAGCTGGAGAACATGCAGCCACTGAA
                                                                                                                                789 GCGGATTGTGGAGATCGCCCGGCTGCGTCCAGCGGAAGGCCCCGCTTTGCCAAGCT
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DEFINITION
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KEYWORDS
SOURCE
ORGANISM
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MEDLINE
PUBMED
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AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
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16787 . 16704
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6 6 6 6 6

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/mote="K_tetra; Region: K+ channel tetramerisation domain.
The N-terminal, cytoplasmic tetramerisation domain (T1) of
voltage-gated K+ channels encodes molecular determinants
for subfamily-specific assembly of alpha-subunits into
the BTB/POZ domain pfam00551". It is distantly related to
/db_xref="CDD:pfam02214"
Clone distribution: MGC clone distribution information can be found through the I.M.A.G. Consortium/Link at: http://image.linl.gov Series: IRAK Plate: 113 Row: 1 Column: 15. Location/Qualifiers
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CVFKEEMPITPYECPLLNSLRFERSESDGQLFEHHCEVDVSFGPWEAVADVYDLLHCL
VTDLSAQGLTVDHQCIGVCDKHLVNHYYCKRPIYEFKITWW"
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Best Local Similarity 92.8
Matches 282; Conservative
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 5628, Ap 4375, Ap 281282, 281282,

Sequence

Sequence 110966, Sequence 110967, Sequence 210968, Sequence 281283, Sequence 281283, Sequence 5528, Ap

Sequence

99288, A 99289, A 99288, A

Sequence Sequence Sequence Sequence Sequence Sequence

Sequence 42, Appl Sequence 88, Appl Sequence 122821, Sequence 122822,

Sequence 115236 Sequence 115237

Run on:

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Sequence 23, Application US/10086156

Publication No. US20030054989A1

GREERAL INFORMATION:
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU

TITLE OF INVENTION: K-betaM4 and K+betaM5

TITLE OF INVENTION: Experiment Application NUMBER: US/10/086,156

CURRENT APPLICATION NUMBER: US 60/272,190

PRIOR FILING DATE: 2001-02-28

PRIOR FILING DATE: 2001-02-28

PRIOR FILING DATE: 2001-07

NUMBER OF SEQ ID NOS: 98

SOFTWARE: Parentin version 3.0

SEQ ID NO 23

LENGTH: 2154
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Sequence 256, App
Sequence 274, App
Sequence 274, App
Sequence 283, App
Sequence 2863, App
Sequence 2864, App
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Sequence 122822,
Sequence 115236,
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          3 US-10-027-632-110968
6 US-10-027-632-110968
6 US-10-027-632-110966
6 US-10-027-632-110966
13 US-10-027-632-110968
3 US-10-027-632-110968
3 US-10-027-632-281283
7 US-10-027-632-281283
5 US-10-027-632-29288
6 US-10-027-632-99288
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100.0%; Score 2154;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2154; Conservative 0; Mismatches
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87869
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ORGANISM: homo sapiens
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US-10-086-156-23
                 NAME/KEY: CDS
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Sequence 1045, Ap
Sequence 408, App
Sequence 18, Appl
Sequence 31358, A
Sequence 31358, A
Sequence 8, Appli
Sequence 8, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1385, Ap
Sequence 29, Appl
Sequence 6, Appli
Sequence 18144, A
Sequence 1575, Ap
                                                                                             October 8, 2004, 08:34:58; Search time 1029 Seconds (without alignments) 10612.096 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                        Published Applications NA:*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
5: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
12: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
18: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
          GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                3340653 segs, 2534783454 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                  - nucleic search, using sw model
                                                                                                                                                                                                                    IDENTITY NUC Gapop 10.0 Gapop 10.0
                                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0
Maximum DB seq length: 200000000
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2154
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Match Length
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                                710 AGAACATGCAGCCACTGAAGGCCGAGAAGTGCGCCAAGCGTTTCTGGGACTCATGCCCT 769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 164 ACGCCGAAGACGACTTTCTGGAGCCGGCCACGCCGACGCCCACGCAGGCGGGGGCACGCC
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                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Tang, Y. Tom
APPLICANT: Tang, Y. Tom
APPLICANT: Tang, Y. Tom
APPLICANT: Reisen
APPLICANT: Reisen
APPLICANT: Reisen
APPLICANT: Wang, Duraui
APPLICANT: Wang, Duraui
APPLICANT: Dramanac, Radoje T.
TITLE OF INVENTION: No. US20030219745A1e1 Nucleic Acids and
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 802CON
CURRENT APPLICATION NUMBER: US/10/120,988
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 09/774,528
PRIOR APPLICATION NUMBER: 09/774,528
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95.9%; Pred. No. 1.7e-166;
tive 0; Mismatches 26;
                                                                                                                                            652 AGGCCCCCTTTGCCAAGCTCAAGGTCT
                                                                                    830 AGGCCGCTTTGCCAAGCTCAAGAGCT
                                                                                                                                                                                                                                                                                Sequence 408, Application US/10120988 Publication No. US20030219745A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 441
SOFTWARE: DE FL_genes Version 2.0
SEQ ID NO 408
LENGTH: 1068
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Matches 601; Conservative
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; LOCATION: (100)..(1068)
US-10-120-988-408
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACGCCGAAGACGACTTTCTGGAGCCGGCCACGCCGACGCCACGCAGGCGGGGCACGCGC 409
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27.3%; Score 587; DB 16;
Best Local Similarity 96.0%; Pred. No. 9.9e-167;
Matches 602; Conservative 0; Mismatches 25;
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: SATO, HIROYUKI
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: TAMAMOTO, TUNA
APPLICANT: TAMAMOTO, TUNA
APPLICANT: TAMAGHIKA, ICHIRO
APPLICANT: TAMAGHIKA, ICHIRO
APPLICANT: TAMAGHIKA, ICHIRO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: NOSHIKAWA, TSUTOMU
APPLICANT: NOSHIKAWA, TSUTOMU
APPLICANT: NASHIKA TSUTOMU
APPLICANT: NASHIKA TSUTOMU
APPLICANT: NASHIKA
APPLICANT: NASHIKA
APPLICANT: NASHIKA
FILING DATE: 2002-03-12
PRIOR PILING DATE: 2002-01-24
PRIOR FILING DATE: 2002-01-328381
NUMBER OF SEQ ID NOS: 3381
SOFTWARE PACENTIN VEY: 2.1
SEO ID NO 1045
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US-10-094-749-1045
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; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyeeq Inc
; TITLE OF INVENTION: No. US20040053248A1e1 Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT APPLICATION NUMBER: US/9/488,725
; PRIOR APPLICATION NUMBER: US/9/852,317
; PRIOR PILING DATE: 2000-01-21
; PRIOR FILING DATE: 2000-01-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 18
; SEQ ID NO 68
; TYPE: DAA
; ORGANISM: Homo sapiens
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Pred. No. 4.1e-130;
0; Mismatches 30;
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                                                                                                                                                                                                                                             644 AGGCCGCTTTGCCAAGCTCAAGGTCT 670
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Best Local Similarity 94.2%;
Matches 483; Conservative (
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US-10-296-115-18
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APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide

TITLE OF INVENTION: Polymorphisms in the Human Genome

FILE REFERENCE: 10827.129

CURRENT PRILIG DATE: 2002-04-30

PRIOR PELING DATE: 2002-07-12

PRIOR APPLICATION NUMBER: US 60/198,676

PRIOR FILING DATE: 2000-07-12

PRIOR PELING DATE: 2000-07-20

PRIOR FILING DATE: 2000-03-20

PRIOR FILING DATE: 2000-03-20

PRIOR PELING DATE: 2000-03-29

PRIOR PELING DATE: 2000-03-24

PRIOR PELING DATE: 2000-03-24

PRIOR PELING DATE: 1999-11-20

PRIOR PELING DATE: 1999-11-20

PRIOR PELING DATE: 1999-10-28

PRIOR PELING DATE: 1999-00-28

PRIOR PELING DATE: 1999-00-28

PRIOR PELING DATE: 1999-00-28

PRIOR PELING DATE: 1999-00-28

PRIOR PELING DATE: 1999-00-30

SOFTWARE: FastSEQ ID NOS: 325720

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Best Local Similarity 100.0%; Pred. No. 2.5e-115;
Matches 417; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-027-632-31358
; Sequence 31358, Application US/10027632
; Dublication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
Sequence 31358, Application US/10027632
Publication No. US20020198371A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , ORGANISM: Human
US-10-027-632-31358
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SEQ ID NO 4
LENGTH: 363
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Publication No. US20020119522A1
GENERAL INFORMATION:
APPLICANT: Fridale, Carl Johan
APPLICANT: Gerhardt, Brenda
APPLICANT: Turner, C. Alexander Jr.
TITLE OF INVENTION: No. US20020119522A1e1 Human Ion Channel-Related Proteins
TITLE OF INVENTION: and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0274-USA
CURRENT APPLICATION NUMBER: US/10/024,579
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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide;
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REPRENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR PLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-00-07-12
PRIOR FILING DATE: 2000-04-20
PRIOR PLICATION NUMBER: US 60/198,676
PRIOR PLICATION NUMBER: US 60/198,518
PRIOR PLICATION NUMBER: US 60/198,28
PRIOR PLICATION NUMBER: US 60/165,363
PRIOR PLICATION NUMBER: US 60/167,363
PRIOR PLICATION NUMBER: US 60/156,358
PRIOR PLICATION NUMBER: US 60/156,358
PRIOR PLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-11-23
PRIOR FILING DATE: 1999-109-28
PRIOR FILING DATE: 1999-09-28
PRIOR FILING DATE: 1999-09-28
PRIOR FILING DATE: 1999-09-8
PRIOR FILING DATE: 1999-08-09
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Matches 417; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Human
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APPLICANT: Gerhardt. Brendaman APPLICANT: Gerhardt. Brendaman APPLICANT: Hilbun, Erin APPLICANT: Hilbun, Erin APPLICANT: Hilbun, Erin APPLICANT: Turner, C. Alexander Jr.

TITLE OF INVENTION: No. US20020119522A1e1 Human Ion Channel-Related Proteins TITLE OF INVENTION: and Polynucleotides Encoding the Same FILE REPRENEUE: LEX. 0274-USA
CURRENT PELING DATE: 2001-12-18
PRIOR PELING DATE: 2001-12-28
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FASELSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18.0%; Score 387.8; DB 14
88.2%; Pred. No. 1.4e-106;
ive 1; Mismatches 3;
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                                                                                                                                                              NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 680
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: US 60/258,595
PRIOR FILING DATE: 2000-12-28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 88.2
Matches 456; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: homo sapiens
US-10-024-579-8
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Sequence 29, Application US/10086156;
Publication No. US20030054989A1
GENERAL INFORMATION:
APPLICATION: BISTOIL HAYER SQUIBD COMPANY
TITLE OF INVENTION: POLYNUCLECTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU:
TITLE OF INVENTION: K+betaM4 and K+betaM5
CURRENT FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/272,190
PRIOR PILING DATE: 2001-02-28
PRIOR PILING DATE: 2001-02-03-07
NUMBER OF SEQ ID NOS: 98
SOFTWARE: Patentin version 3.0
SEQ ID NO 29
LENGTH: 583
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83.2%; Pred. No. 9.7e-42;
tive 0; Mismatches 40; Indels
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HER INFORMATION: EXPRESSED IN HELA, SIGNAL = 12
HER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
HER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.
HER INFORMATION: EXPRESSED IN BRA1N, SIGNAL = 1.4
HER INFORMATION: EXPRESSED IN HT474, SIGNAL = 1.4
HER INFORMATION: EXPRESSED IN HT400, SIGNAL = 8.5
HER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
HER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.
HER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR PILING DATE: 2000-09-21
PRIOR PILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOCTWARE: Annomax Sequence Listing Engine vers: 1.1
SEQ ID NO 135
LENGTH: 473
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CTHER INFORMATION: MAP TO AC006001.2
OTHER INFORMATION: EXPRESSED IN HELA
OTHER INFORMATION: SYPRESSED IN HELA
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Best Local Similarity 83.2
Matches 198; Conservative
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ORGANISM: Homo sapiens
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CRGANISM: homo sapiens
US-10-086-156-29
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APPLICANT: Rank, David R.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Acomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
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                                                                                                                                Length 363;
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                                                                                                                                DB 14;
                                                                                                                                Score 315.2; DB
Pred. No. 1e-84;
0; Mismatches
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PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR PLILAGIATION NUMBER: US 60/180,312
PRIOR PLILAGIATION NUMBER: US 60/207,456
PRIOR PELLING DATE: 2000-05-26
PRIOR PLILING DATE: 2000-06-36
PRIOR PLILING DATE: 2000-08-36
PRIOR PLILING DATE: 2000-10-04
PRIOR PLILING DATE: 2000-10-04
PRIOR PLILING DATE: 2000-10-04
PRIOR PLILING DATE: 2000-10-10
PRIOR PLILING DATE: 2000-10-30
PRIOR PLILING DATE: 2001-01-30
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Patent No. US20020048763A1
GENERAL INFORMATION:
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                                                                                                                                14.6%;
                                                                                                                        Query Match
Best Local Similarity 99.1
Matches 317; Conservative
    ; ORGANISM: homo sapiens
US-10-024-579-4
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Sequence 6, Application US/10024579;
Publication No. US20020119522A1
GENERAL INFORMATION:
APPLICANT: Friddle, Carl Johan
APPLICANT: Gerhardt, Brenda
APPLICANT: Hilbun, Erin
APPLICANT: Turner, C. Alexander Jr.
ITILE OF INVENTION: and Polynucleotides Encoding the Same
ITILE REPREBNEE: LEX-027-4-USA
FILE REPREBRENCE: LEX-027-4-USA
CURRENT FILING DATE: 2001-12-18
CURRENT FILING DATE: 2001-12-18
FRIOR FILING DATE: 2000-12-28
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 4.0
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Query Match

8.1%; Score 174; DB 15; Length 583;
Best Local Similarity 83.2%; Pred. No. 1.1e-41;
Matches 198; Conservative 0; Mismatches 40; Indels
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Pred. No. 2.3e-41;
0; Mismatches 41;
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Best Local Similarity 82.8%;
Matches 197; Conservative
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ORGANISM: homo sapiens
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LENGTH: 321
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US-09-864-761-18144/c
; Sequence 18144, Application US/09864761;
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.

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| APPLICANY: Harse, 1 avoid strong NONGE DBITUD STRUEE EXON NUCLEIC ACID PROSES USEFOU FOR FULLING PARTY MARKET, 1970/964,761
| FILTED OF INVENTION: Amended STRUESSION NUALFIES BY MICHORARY (COURSEL) |
| FILLER REPRESENTS. Amended X. 1 amended STRUESSION NUALFIES BY MICHORARY (COURSEL) |
| FILLER REPRESENTS. Amended X. 1 amended X. 100.0-13.
| FILLER REPRESENTS AMENDED NATE: 300.0-10.13.
| FROM APPLICATION NUMBER: US 60/254,366 |
| FROM APPLICATION NUMBER: US 70/1801/0666 |
| FROM APPLICATION NUMBER: PCT/1801/0666 |
| FROM APPLICATION NUMBER: US 60/234,667 |
| FROM APPLICATION
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Pred. No. 4.3e-24;
0; Mismatches 63; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                DB 13;
                                                                                                                                                                                                                                                                                                                                                                                                                         Score 116.4; DB 1;
Pred. No. 6.7e-23;
0; Mismatches 46
PRIOR APPLICATION NUMBER: US 09/747,377
PRIOR FILLING DATE: 2000-12-22
PRIOR PILLING DATE: 2000-12-22
PRIOR PILLING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 2059
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 60430
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 5.4%;
Best Local Similarity 75.8%;
Matches 144; Conservative
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Best Local Similarity 71.0%;
Matches 154; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7921 AAAAAAAAA 7930
                                                                                                                                                                                                                                                                                TYPE: DNA
CORGANISM: Homo sapiens
US-10-087-192-1732
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US-10-027-632-110966
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2025 CCTAGCACTITGGAAGGCTGAGGTGGGCAGATTGCTTGAGCACAGGAGTTCCAGACCAGC 2084
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                                                                              488 CACTGCGGTGCTACGAAGACACCATGTTGGCAGCCATGTTCAGTGGGCGGCACTACATCC
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                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1575, Application US/10240425

Publication No. US20040033502A1

GENERAL INFORMATION:
APPLICANT: Williams, Amenda
APPLICANT: Boland, Joseph F.
APPLICANT: Lord, Reginald V.
APPLICANT: Wetzel, Jon C.
APPLICANT: Wetzel, Jon C.
APPLICANT: Wetzel, Jon C.
APPLICANT: Wetzel, Uwe
APPLICANT: Wetzel, Uwe
APPLICANT: Wockley, Joseph G.
TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
FILE REFERENCE: 44921-50.6
TITLE OF INVENTION UNMERR: US/10/240,425
CURRENT APPLICATION NUMBER: US/10/240,425
CURRENT FILING DATE: 2001-03-30
FRIOR APPLICATION NUMBER: PCT/US01/09847
FRIOR APPLICATION NUMBER: PCT/US01/09847
FRIOR APPLICATION NUMBER: 2001-03-38
FRIOR APPLICATION NUMBER: 2001-03-38
FRIOR APPLICATION NUMBER: 2001-03-38
FRIOR FILING DATE: 2001-03-38
FRIOR FILING DATE: 2001-03-31
NUMBER: OF SEQ ID NOS: 1588
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1575
LENGTH: 18534
                                                                                                                                                                        548 CCACAGACTCCGAGGGCCGGTACTTCATCGACCGAGATGGCACACACTTTGG 599
                                                                                                                                                                                                                DB 13; Length 18534;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: Genbank Accession No. US20040033502A1 Y15724 US-10-240-425-1575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 5.4%; Score 116.4; DB 13; Length Best Local Similarity 75.8%; Pred. No. 3.2e-23; Matches 144; Conservative 0; Mismatches 46; Indels
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US-10-087-192-1732

i Sequence 1732, Application US/10087192

j Publication No. US20020182586A1

i GENERAL INFORMATION:

i APPLICANT: MORTHS, David W.

i TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR

ITILE OF INVENTION: CANCER

ITILE OF INVENTION: CANCER

ITILE OF INVENTION: CANCER

CURRENT APPLICANTON NUMBER: US/10/087,192

CURRENT FILING DATE: 2002-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2145 AAAAAAAAA 2154
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ORGANISM: Homo sapiens
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US-10-240-425-1575
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